PATENT COOPERATION TREATY

	From the INTERNATIONAL SEARCHING AUTHORITY								
	To: KENNETH I. KOHN KOHN & ASSOCIATES, PLLC 30500 NORTHWESTERN HIGHWAY FARMINGTON HILLS, MI 48334		PCT WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY						
- 5				(PCT Rule 43bis.1)					
	•		Date of mailing (day/month/year)	0.9 MAY 2005					
וֹ	Applicant's or agent's file reference.		FOR FURTHER ACTION See paragraph 2 below						
	3115.00067								
	International application No.	International filing date							
	PCT/US04/25518	05 August 2004 (05.08.2004)		08 August 2003 (08.08.2003)					
	International Patent Classification (IPC)	or both national classificat	ion and IPC						
	IPC(7): C12N 5/00 and US CL: 435/325,	375, 377; 424/85.2, 85.5,	85.1, 85.4; 514/2						
	Applicant								
	IRx THERAPEUTICS, INC.								
	This opinion contains indications relating to the following items:								
	Box No. I Basis of the opinion								
İ	Box No. II Priority								
	Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability								
	Box No. IV Lack of unity of invention Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement Box No. VI Certain documents cited Box No. VII Certain defects in the international application								
	Box No. VIII Certain observations on the international application								
	2. FURTHER ACTION								
	If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.								
	If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.								
	For further options, see Form PCT/IS	151 220.							
	3. For further details, see notes to Form PCT/ISA/220.								
	Name and mailing address of the ISA/US Authorized Officer								
	Mail Stop PCT, Attn: ISA/US Commissioner for Patents Leon/Lenkford								
	P.O. Box 1450 Alexandria, Virginia 22313-1450 Telephone No. 5/1,272-1600								
	Facsimile No. (703) 305-3230								
Fo	Form PCT/ISA/237 (cover sheet) (January 2004)								

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US04/25518

Box No	o. I Basis of this opinion							
1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.								
	This opinion has been established on the basis of a translation from the original language into the following language, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).							
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:								
a.	type of material							
	a sequence listing							
	table(s) related to the sequence listing							
ъ.	format of material							
	in written format							
	in computer readable form							
c.	time of filing/furnishing							
	contained in international application as filed.							
	filed together with the international application in computer readable form.							
	furnished subsequently to this Authority for the purposes of search.							
	In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.							
4. Additional comments:								
DOT /	ISA/227/Pox No. I) (January 2004)							

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US04/25518

ZVIZIVATIONAL SEARCHING									
Box No. V Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement									
1. Statement									
Novelty (N)				YES					
	Claims	NONE		NO					
Inventive step (IS)	Claims	NONE		VEC					
mvenave step (15)		1.00							
Industrial applicability (IA)	Claims	1-32		YES					
	Claims	NONE		NO					
2. Citations and explanations:									
Claims 1-32 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry.									
Claims 1-32 lack an inventive step under PCT Article	33(3) as being	g obvious over							
Hadden et al (5632983). Hadden teaches a treatment of immune prob	lems using a t	herapeutic NCM	I (a composition which cont	ains 200-500 units of					
IL-2 (col 6)- a compound notoriously old and well kno limitations with the exception that it does not contain (own for the tre	eatment of cance	The composition contains	s all of applicant's					
obvious to add CY or INDO to the therapeutic compos	sition of the pa	atent because the	e composition is intended to	modulate the immune					
system of a patient and CY and INDO (or other NSAII immunocompositions or anticancer compositions.	Ds) are notori	ously old and w	ell known for their use in che	motherapeutic					
Claim 30 lacks novelty under PCT Article 33(2) as being anticipated by Hadden.									
Hadden teaches a therapeutic NCM which contains all of applicant's limitations thus anticipating the claim.									
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Form PCT/ISA/237 (Box No. V) (January 2004)